



Atty. Dkt. No. QUANT1350-1
(028248-2302)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Dershem et al.

Title: BENZOXAZINES,
THERMOSETTING RESINS
COMPRISED THEREOF, AND
METHODS FOR USE THEREOF

Appl. No.: 10/735,119

Filing Date: December 11, 2003

Examiner:

Art Unit:

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

<p>CERTIFICATE OF MAILING</p> <p>I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner for Patents, PO Box 1450, Alexandria, Virginia 22313-1450, on the date below.</p> <p><u>Stephen E. Reiter</u> (Printed Name)</p> <p><u>SEP E.</u> (Signature)</p> <p><u>3/31/04</u> (Date of Deposit)</p>
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INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Sir:

Applicants submit herewith on Form PTO-892 and PTO-1449 a listing of the documents cited by or submitted to the U.S. PTO in parent application Serial No. 10/008,591, filed 11/13/2001. As provided in 37 CFR §1.98(d), copies of the documents are not being provided since they were previously submitted to the United States Patent & Trademark Office in the above-identified parent application.

Moreover, the USPTO has waived the requirement under 37 CFR 1.98(a)(2)(i) to submit copies of U.S. patents and U.S. patent application publications when citing and submitting an Information Disclosure Statements in a patent application filed after June 30, 2003 and in an international application that has entered the national stage under 37 USC §371 after June 30, 2003. Accordingly, copies of these types of documents are not being supplied in connection with

this application. Reference is being made to Pre-OG Notice from Office of Patent Legal Administration dated July 25, 2003, *Information Disclosure Statements May Be Filed Without Copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003*.

The identification and/or submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR §1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* art reference against the claims of the present application.

TIMING OF THE DISCLOSURE

The listed documents are being submitted in compliance with 37 CFR §1.97(b), before the mailing of a first Office Action on the merits in the above-identified application.

RELEVANCE OF EACH DOCUMENT

All of the documents are in English.

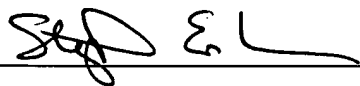
Applicants respectfully request that any listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of all forms be returned in accordance with MPEP §609.

The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 50-0872. Should no proper payment be enclosed herewith, as by a check

being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-0872.

Respectfully submitted,

Date 3/31/04

By 

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Form PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
QUANT1350 (028248-2301)SERIAL NO.
10/008,591

APPLICANT

Dershem et al.

FILING DATE

11/13/2001

GROUP ART UNIT

1624

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
	A1	4,607,091	8-19-86	Schreiber	528	96	
	A2	5,021,484	6-4-91	Schreiber et al.	524	100	
	A3	5,200,452	4-6-93	Schreiber	524	398	
	A4	5,443,911	8-22-95	Schreiber et al.	428	413	
	A5	5,447,988	9-5-95	Dershem et al.	524	780	
	A6	5,543,516	8-6-96	Ishida	544	69	
	A7	6,034,194	3-7-00	Dershem et al.	526	262	
	A8	6,034,195	3-7-00	Dershem et al.	526	262	
	A9	6,207,786 B1	3-27-01	Ishida et al.	528	94	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	A10	Dagani, "Novel Water-displacing Polymers Show Promise in Coating Uses," C&EN, July 29, 1991, p. 20-22.
	A11	Ishida, "Development of Polybenzoxazines: A New Class of High Performance, Ring-Opening Phenolic Resins With Superb Balance..." Proceedings of the International Composites Expo, 1998, Session 14-B, p. 1-8.
	A12	Ishida et al., "Synthesis of Benzoxazine Functional Silane and Adhesion Properties of Glass-Fiber-Reinforced Polybenzoxazine Composites," Journal of Applied Polymer Science, Vol. 69, 1998, p. 2559-2567.
	A13	Kimura, "New Thermosetting Resin From Bisphenol A-Based Benzoxazine and Bisoxazoline," Journal of Applied Polymer Science, Vol. 72, 1999, p. 1551-1554.
	A14	Liang et al., "Amine-Quinone Polyurethanes as Binders for Metal Particle Tape," IEEE Transactions on Magnetics, Vol. 29, No. 6, 1993, p. 3649-3651.

EXAMINER

DATE CONSIDERED

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

Form PTO-1449 (MODIFIED)	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO. QUANT1350 (028248-2301)	SERIAL NO. 10/008,591
INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)		APPLICANT Dershem et al.	
		FILING DATE 11/13/2001	GROUP ART UNIT 1624

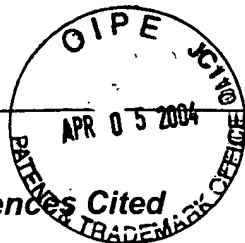
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

A15	Nikles et al., "Protection of Fe Pigments with Amine-Quinone Polymers," IEEE Transactions on Magnetics, Vol. 30, No. 6, 1994, p. 4068-4070.
A16	Nikles et al., "Amine-Quinone Polyurethanes, I. Preparation of Polyurethane Block Copolymers Containing 2,5-Bis(N-2-hydroxyethyl-N-methylamino)..." Journal of Polymer Science, Vol. 33, 1995, 2881-2886.
A17	Ning et al., "Phenolic Materials via Ring-Opening Polymerization: Synthesis and Characterization of Bisphenol-A Based Benzoxazines and Their Polymers," Journal of Polymer Science, Vol. 32, 1994, p. 1121-1129.
A18	Nithianandam et al., "Quinone-Amine Polymers. VI. Syntheses and Solubilities of Several Cooligomers (PAQs) Produced by Reacting Two Diamines with p-Benzoquinone," J. of App. Poly. Sci., Vol. 42, 1991, p. 2899-2901.
A19	Nithianandam et al., "Quinone-Amine Polymers. V. Syntheses and Solubilities of Several Diamine-p-Benzo-Quinone Oligomers (PAQ)," Journal of Applied Polymer Science, Vol. 42, 1991, p. 2893-2897.
A20	Riess et al., "Ring Opening Polymerization of Benzoxazines - A New Route to Phenolic Resins," Polymer Science and Technology, Vol. 31, 1985.
A21	Rimdusit, "Development of New Class of Electronic Packaging Materials Based on Ternary Systems of Benzoxazine, Epoxy, and Phenolic Resins," Polymer, Vol. 41, 2000, p. 7941-7949.

EXAMINER

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* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

**Notice of References Cited**

Application/Control No.

10/008,591

Applicant(s)/Patent Under

Reexamination

DERSHEM ET AL.

Examiner

Richard L. Raymond

Art Unit

1624

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-			
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	Chirachanchai et al., Chemical Abstracts, Vol. 136:140341, 2001.
	V	Perrin et al., Chemical Abstracts, Vol. 132:182054, 2000.
	W	Reynolds et al., Chemical Abstracts, Vol. 75:110252, 1971.
	X	Fields et al., Chemical Abstracts, Vol. 58:46709, 1963.

*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.